

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198706

Luminaire Tested: **XNV-AF-01-LED-U-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL3-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3460.6 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

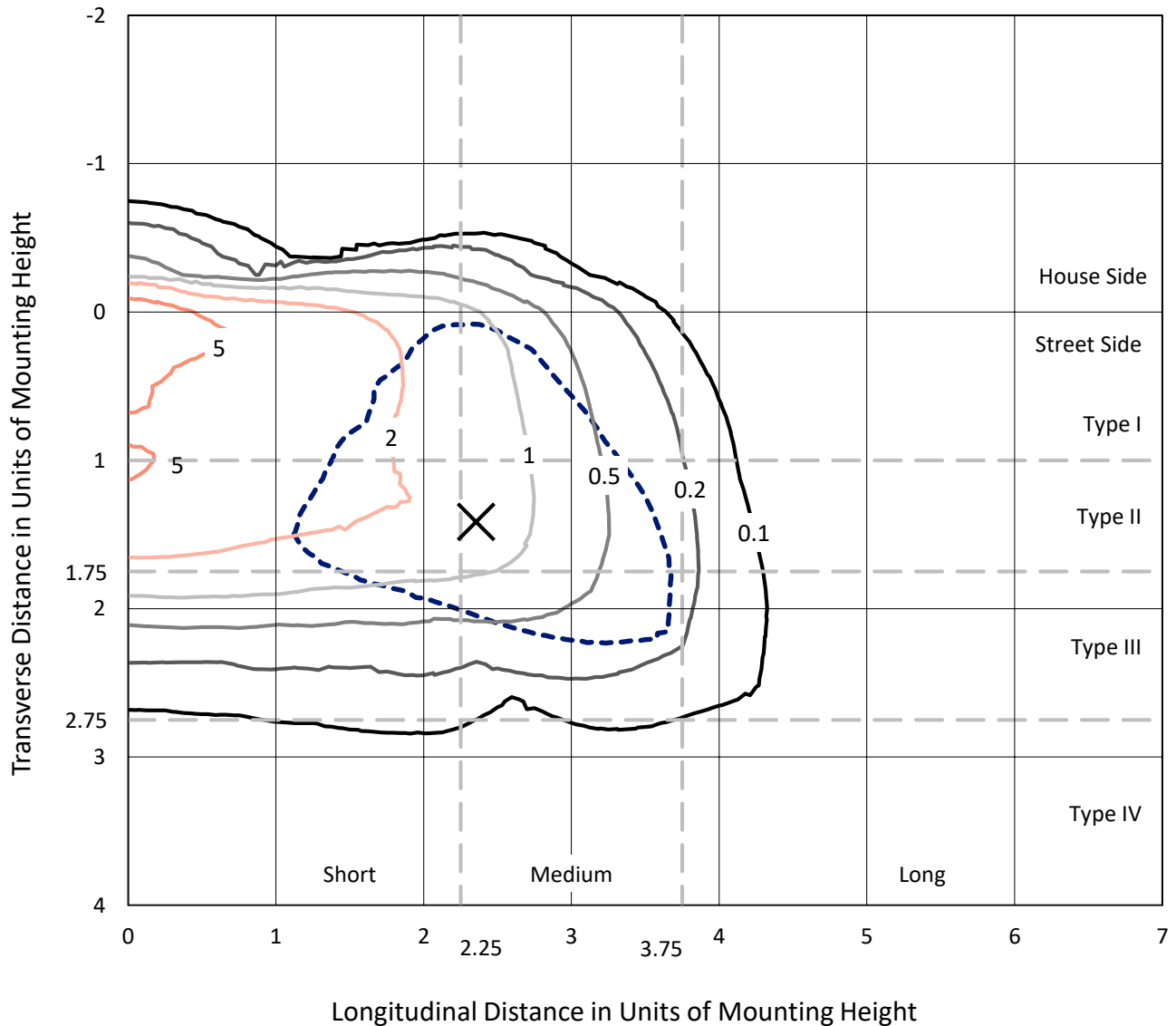
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: XNV-AF-01-LED-U-SL3-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

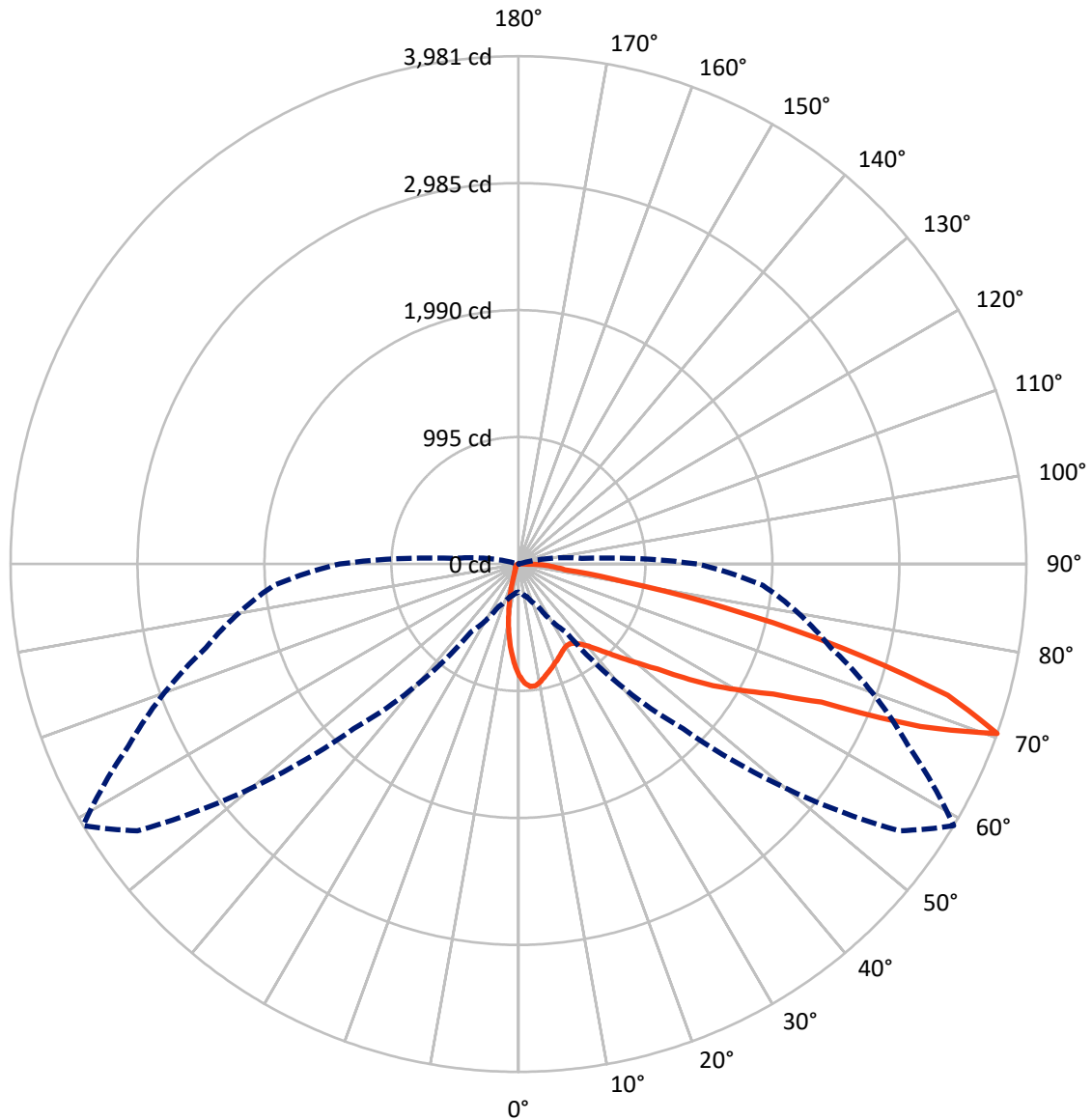
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P198706
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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: XNV-AF-01-LED-U-SL3-600-HSS

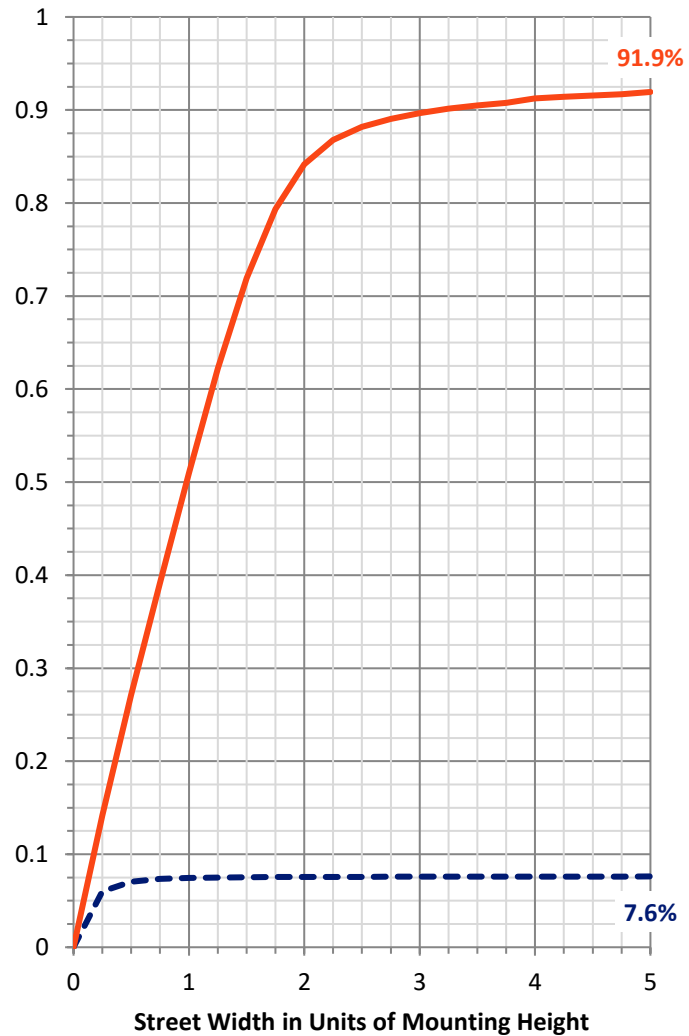
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.0	0.0	266.0
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3194.6	0.0	3194.6
	% Fixture	92.3	0.0	92.3
Total	Lumens	3460.6	0.0	3460.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	2.1
10°-20°	150.9	4.4
20°-30°	204.3	5.9
30°-40°	294.8	8.5
40°-50°	489.7	14.1
50°-60°	749.0	21.6
60°-70°	931.6	26.9
70°-80°	515.0	14.9
80°-90°	53.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3460.6	100.0
0°-180°	3460.6	100.0



--- HS — SS

REPORT NUMBER: P198706

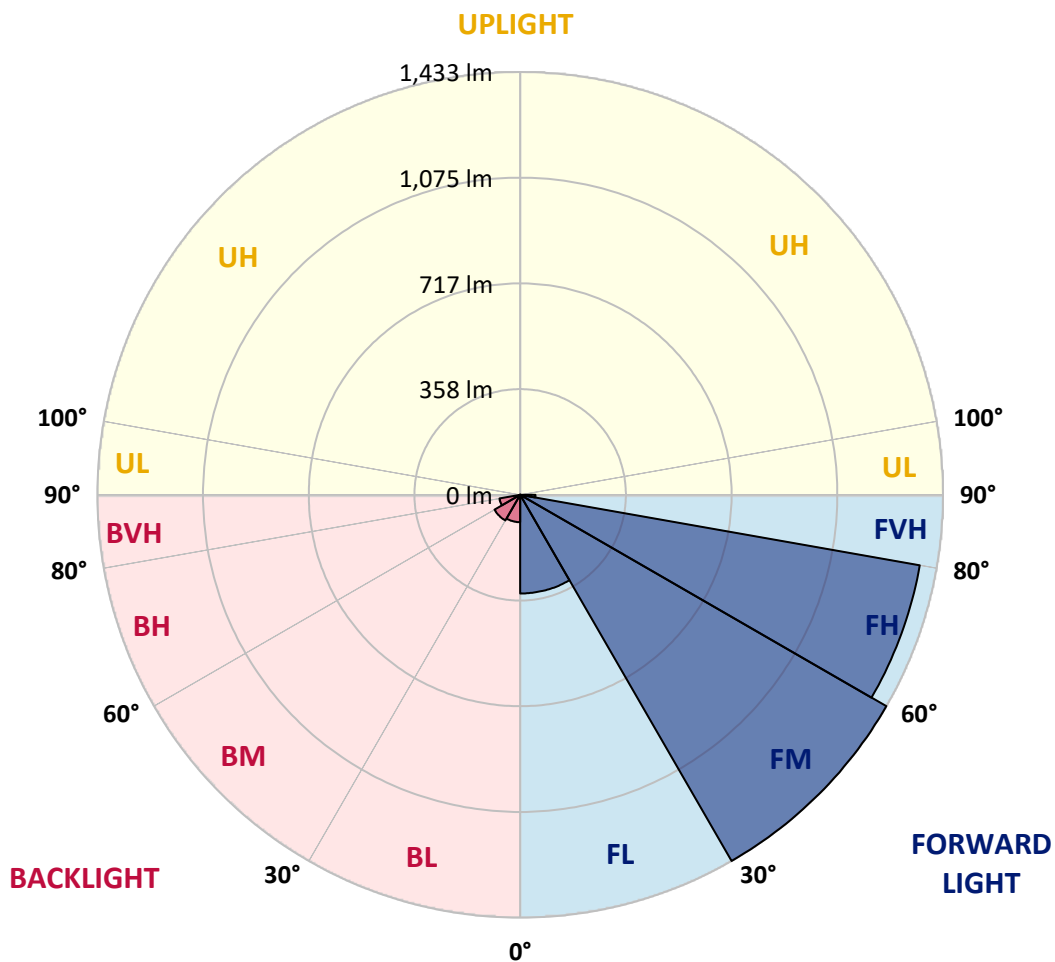
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.5	9.7			
FM	(30°-60°)	1433.1	41.4			
FH	(60°-80°)	1375.2	39.7			G1/1800
FVH	(80°-90°)	51.9	1.5			G1/100
BL	(0°-30°)	92.7	2.7	B0/110		
BM	(30°-60°)	100.4	2.9	B0/220		
BH	(60°-80°)	71.4	2.1	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium





REPORT NUMBER: P198706

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0
2.5°	989.2	987.6	981.1	979.8	972.4	957.8	940.9	934.1	920.2	898.4	874.0
5°	1005.6	1006.4	1006.9	1004.0	1003.0	990.9	972.2	964.1	945.5	909.5	865.1
7.5°	944.0	946.1	952.6	955.4	968.0	972.7	968.8	963.6	949.0	906.4	844.0
10°	879.0	882.9	890.0	894.7	910.0	922.6	938.6	939.8	936.7	896.0	820.2
12.5°	823.2	826.7	834.6	844.0	859.7	875.9	899.6	908.0	918.4	889.1	803.3
15°	775.1	776.1	783.7	795.4	816.1	838.3	866.4	878.7	899.1	886.6	790.2
17.5°	733.0	733.4	738.3	749.0	774.1	803.3	836.2	852.3	878.2	882.9	778.8
20°	705.4	705.1	705.4	711.2	733.4	768.0	808.0	824.9	858.2	878.5	767.0
22.5°	696.0	694.7	688.7	686.6	700.7	731.2	779.0	801.2	840.0	877.2	758.4
25°	707.5	706.7	693.9	681.9	683.2	702.3	749.5	776.6	826.0	881.9	756.3
27.5°	744.5	743.0	723.4	699.9	685.1	688.4	727.5	756.1	814.8	893.3	759.1
30°	793.1	793.4	772.4	744.0	709.0	689.7	715.9	742.8	807.2	910.5	765.5
32.5°	847.1	846.9	832.0	799.1	754.4	713.7	721.1	743.8	808.2	935.9	777.4
35°	903.0	900.1	895.2	866.2	814.0	755.8	744.8	761.5	819.2	969.3	797.8
37.5°	967.5	966.5	971.4	940.9	887.6	817.6	786.5	797.8	846.9	1018.7	830.7
40°	1070.1	1064.4	1066.7	1025.2	970.6	900.9	845.1	847.9	891.0	1083.9	882.6
42.5°	1265.6	1242.4	1198.8	1120.9	1062.0	993.3	921.6	916.6	953.4	1163.0	951.0
45°	1499.2	1472.6	1362.8	1226.7	1153.4	1092.5	1016.0	1002.7	1030.1	1257.3	1039.3
47.5°	1694.3	1665.6	1519.9	1337.1	1246.3	1194.9	1120.7	1105.1	1122.1	1366.7	1145.3
50°	1760.8	1744.9	1617.0	1429.1	1340.1	1309.8	1252.1	1225.9	1230.1	1484.6	1269.0
52.5°	1730.3	1724.8	1639.2	1492.0	1426.7	1436.6	1395.9	1368.5	1363.8	1613.6	1405.8
55°	1665.8	1663.2	1621.5	1527.0	1503.2	1552.7	1597.6	1573.9	1529.5	1750.7	1518.9
57.5°	1573.7	1583.6	1613.6	1594.3	1597.1	1675.5	1785.2	1797.4	1731.0	1859.8	1602.7
60°	1327.5	1354.1	1491.7	1666.6	1800.5	1879.7	1985.9	2008.9	1901.9	1934.5	1699.5
62.5°	981.3	1019.5	1215.5	1536.9	1912.5	2267.8	2252.9	2242.7	2064.7	2034.4	1875.7
65°	576.4	621.0	786.9	1200.8	1743.6	2517.4	2751.5	2610.6	2313.0	2242.2	2156.4
67.5°	287.1	287.4	362.3	633.8	1288.6	2343.3	3479.4	3397.9	2840.8	2548.5	2267.1
70°	220.9	226.9	268.1	368.4	651.6	1825.0	3646.2	3980.6	3371.3	2534.9	1923.5
72.5°	187.2	191.1	238.7	320.6	487.1	1002.0	3156.5	3518.5	3217.1	2141.8	1417.8
75°	134.7	137.8	211.2	290.8	448.5	497.1	2165.2	2609.5	2413.8	1506.6	780.3
77.5°	33.5	33.1	73.7	236.0	401.2	414.1	1242.4	1673.3	1384.9	616.8	200.5
80°	14.8	14.3	16.7	49.6	373.3	390.8	546.4	845.1	531.2	99.9	61.4
82.5°	10.4	9.9	10.4	18.3	124.8	362.6	330.2	366.2	194.5	34.2	26.1
85°	3.4	3.2	5.7	15.4	35.0	209.1	322.1	273.6	144.6	14.6	17.5
87.5°	0.5	0.5	2.0	8.4	10.2	69.7	189.0	189.6	65.0	8.6	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198706

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0	875.0
2.5°	861.7	846.4	824.7	803.0	783.5	763.3	747.2	739.6	736.2	731.5	721.3
5°	841.9	814.0	766.5	719.7	676.2	634.3	598.6	578.3	556.3	555.3	544.6
7.5°	810.1	770.4	695.5	622.9	556.3	492.7	437.8	402.3	378.0	362.8	352.4
10°	774.6	723.6	624.4	522.4	431.8	346.7	276.2	230.3	202.3	188.2	180.1
12.5°	746.3	682.4	554.5	426.1	312.5	214.8	149.4	115.9	101.1	95.2	92.7
15°	722.1	644.6	489.0	339.9	208.6	123.5	86.4	75.5	73.1	73.1	72.8
17.5°	697.6	608.0	425.2	255.3	131.3	80.9	68.1	66.6	66.8	67.6	67.6
20°	674.3	573.3	364.0	182.0	86.1	64.8	61.9	61.4	62.1	63.2	62.9
22.5°	655.5	542.8	306.5	125.0	66.3	58.7	56.9	56.2	56.7	57.4	57.2
25°	642.2	516.6	253.8	87.2	57.7	53.5	51.5	50.4	49.8	50.4	50.1
27.5°	634.1	494.7	204.2	65.6	51.7	48.3	45.7	43.6	42.2	42.2	41.7
30°	628.9	474.0	160.0	54.3	46.7	43.1	39.4	36.5	34.5	34.0	33.7
32.5°	628.6	456.3	119.6	48.1	42.0	37.8	33.5	29.8	27.4	26.9	26.6
35°	635.2	442.0	88.0	43.4	37.8	32.9	27.9	24.0	21.9	21.9	21.7
37.5°	652.1	433.6	66.6	39.7	34.5	28.7	23.5	19.8	18.0	18.5	18.5
40°	683.7	432.1	54.3	36.8	31.6	25.1	19.0	16.2	15.4	16.2	16.2
42.5°	732.0	440.4	48.3	34.7	28.9	21.4	16.0	13.8	13.6	14.3	14.3
45°	794.9	456.8	44.9	32.9	26.1	17.8	13.3	12.0	11.8	12.8	12.8
47.5°	871.1	479.0	41.7	30.8	23.2	14.6	11.3	10.2	10.2	11.3	11.5
50°	961.5	509.0	38.7	28.7	20.9	12.3	9.4	8.6	8.9	9.9	10.2
52.5°	1065.4	545.8	35.8	26.9	18.3	9.9	7.9	7.3	7.6	8.6	8.9
55°	1154.9	578.0	32.3	25.1	14.8	8.1	6.5	6.2	6.5	7.9	7.9
57.5°	1233.0	608.8	29.3	22.2	11.8	6.5	5.2	5.2	5.7	7.1	7.3
60°	1336.6	657.3	26.6	18.8	8.9	4.9	4.2	4.4	5.2	6.2	6.5
62.5°	1520.1	739.8	23.2	15.7	6.5	3.9	3.4	3.7	4.7	6.0	6.2
65°	1749.9	817.8	19.3	13.1	4.9	2.9	2.7	3.4	4.7	6.0	6.2
67.5°	1726.4	711.4	15.1	10.4	3.7	2.4	2.0	3.2	4.4	6.0	6.2
70°	1400.1	498.6	11.3	7.1	2.9	2.0	2.0	3.2	4.4	5.7	6.0
72.5°	971.2	277.5	8.6	4.7	2.7	2.0	1.8	2.9	4.2	5.7	6.0
75°	462.1	85.1	6.8	3.4	2.4	1.8	1.5	2.9	4.2	5.7	6.0
77.5°	88.8	21.7	5.5	2.9	2.0	1.8	1.5	2.7	4.2	5.5	5.7
80°	30.0	9.6	4.4	2.7	2.0	1.8	1.5	2.7	3.9	5.2	5.5
82.5°	16.5	5.5	3.9	2.4	2.0	1.5	1.3	2.4	3.7	5.2	5.5
85°	12.8	3.9	3.2	2.4	2.0	1.5	1.3	2.4	3.7	4.9	5.2
87.5°	6.5	2.9	2.7	2.4	2.0	1.5	1.3	2.0	3.4	4.7	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)